UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

(Print or Type Responses)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Bell Bobb		Reporting Person *						or Tradin		ol	:	5. Relations Director	hip of Reporti (Chec	k all applicab											
C/O KLA TECHNO	-TENCOR	(First) R CORPORATI RIVE	ONT ONTE	3. Date of 07/12/20		est Tra	nsactio	on (Month	/Day/Ye	ear)		X Officer (give title below) Other (specify below) Executive Vice President													
MILPITA	S CA 050	(Street)	4	4. If Amer	ndmen	it, Date	e Origi	inal Filed(Month/Day	/Year)		6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting PersonForm filed by More than One Reporting Person													
(City)		(State)	(Zip)	(Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficia											od.										
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)	2A. Deer Execution any (Month/I	n Date	e, if	3. Trans	saction (3)	4. Securi	ities Acq isposed (4 and 5) (A) or (D)	uired of (D)	5. Amount	of Securities I lowing Report	Beneficially ed	6. Ownership Form:	7. Nature of Indirect Beneficial Ownership (Instr. 4)									
Common	Stock		07/12/2013				М			Δ	¢.	20,680)		D										
Common	Stock		07/12/2013				S ⁽²⁾		6,200	D	\$ 60	14,480			D										
Common Units (3)	Common Stock - Restricted Stock Juits (3)											127,000	(4)		D										
Reminder: F								Perso	ns who				n of informa		ned SEC	1474 (9-02)									
Temmuer. I								Perso in this	ns who form a	re not r	equired	l to respo			ned SEC	1474 (9-02)									
	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year	3A. Deemed Execution Date, if	4. Transac Code	ve Secus, calls tion of E S A	urities , warn . Num of Derivat Securit Acquire A) or	s Acquirants, of the first tive (ies ed	Perso in this displa	ns who form a ys a cu oosed of onvertil ercisable Date	re not r rrently , or Ben ble secur e and	required valid Of eficially rities) 7. Title of Undo Securities	Owned and Amou	nd unless the number.	9. Number of Derivative Securities Beneficially Owned Following Reported	f 10. Owners Form o Derivat Security Direct (or Indir	11. Natur of Indirec Beneficia Ownershi (Instr. 4)									
1. Title of Derivative Security	Conversion or Exercise Price of Derivative	Date	3A. Deemed Execution Date, if	4. Transac Code	ye Secus, calls 5 tion of E	urities; warn Num f Derivat Acquire Acquire A) or f(D) Instr. 3	S Acquirants, on the first tive (sies ed ed 3, 4,	Perso in this displa dired, Dispoptions, co. Date Exemples	ns who form a ys a cu posed of onvertil ercisable Date ay/Year)	re not r rrently , or Ben ble secur e and	required valid Of eficially rities) 7. Title of Undo Securities	Owned and Amou erlying ies	at 8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following	f 10. Owners Form o Derivat Security Direct (or Indir	11. Natur of Indirec Beneficia Ownershi (Instr. 4)									

Relationships

Executive Vice President

Other

Officer

10%

Owner

Director

Signatures

Bell Bobby R

Reporting Owner Name / Address

C/O KLA-TENCOR CORPORATION

ONE TECHNOLOGY DRIVE MILPITAS, CA 95035

Brian M. Martin as Attorney-in-Fact for Bobby R. Bell	07/16/2013	3	3	3																										
**Signature of Reporting Person	Date																													

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Includes 504 shares of KLA-Tencor common stock acquired by the Reporting Person under the KLA-Tencor Employee Stock Purchase Plan on June 30, 2013.
- (2) This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on May 30, 2012, the applicable portion of which plan was administratively transferred to a new broker effective November 2, 2012.
- (3) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (4) Does not include performance-based RSUs, if any, held by the Reporting Person for which an assessment has not yet been made regarding the achievement of the applicable performance goals. Any such holdings will be reported on Form 4 within two business days of the date such assessment is made.
- Represents a stock option granted on October 27, 2003, granting the Reporting Person the right to purchase up to 6,200 shares of KLA-Tencor common stock. 1,240 of the shares subject (5) to this stock option vested on October 27, 2004, and 1/48th of the remaining 4,960 shares subject to this stock option vested on November 27, 2004 and each monthly anniversary
- (5) to this stock option vested on October 27, 2004, and 1/48th of the remaining 4,960 shares subject to this stock option vested on November 27, 2004 and each monthly anniversary thereafter until October 27, 2008.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.